Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES BI-MONTHLY
Sample ID#s: CC17470

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Laboratory Director

	NJ Lab Registration #CT-003
NELAC - #NY11301	**NY Lab Registration #11301**
CT Lab Registration #PH-0618	**PA Lab Registration #68-03530**
MA Lab Registration #M-CT007	**RI Lab Registration #63**
ME Lab Registration #CT-007	**UT Lab Registration #CT00007**
NH Lab Registration #213693-A,B	**VT Lab Registration #VT11301**

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102   Fax (860) 645-0823

Analysis Report
December 20, 2018

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information		Custody Information		Date	Time
Matrix:	WASTE WATER	Collected by:		12/19/18	7:00
Location Code:	BARNHARD	Received by:	LB	12/19/18	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	G8228				

Laboratory Data

SDG ID: GCC17470
Phoenix ID: CC17470

Project ID: NPDES BI-MONTHLY
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Nitrite-N	1.51	0.100	mg/L	10	12/19/18 21:33	TB	E353.2
Nitrate-N	17.9	0.20	mg/L	10	12/19/18 21:33	TB	E353.2
Nitrogen Tot Kjeldahl	12.6	1.00	mg/L	10	12/20/18	KDB	E351.1
Total Nitrogen	32.0	0.10	mg/L	1	12/20/18	KDB	SM4500NH3/E300.0-97

RL/PQL=Reporting/Practical Quantitation Level   ND=Not Detected   BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
December 20, 2018
Reviewed and Released by: Bobbi Aloisa, Vice President

Ver 1

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102   Fax (860) 645-0823

QA/QC Report

December 20, 2018   QA/QC Data   SDG I.D.: GCC17470

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 460682 (mg/L), QC Sample No: CC17465 (CC17470)													
Nitrate-N	BRL	0.02	0.71	0.70	1.40	105			94.1			90 - 110	20
Nitrite-N	BRL	0.01	0.111	0.11	0.90	104			101			90 - 110	20
QA/QC Batch 460640 (mg/L), QC Sample No: CC16357 (CC17470)													
Nitrogen Tot Kjeldahl	BRL	0.10	92.5	97.5	5.30	105			102			85 - 115	20

Comment:

TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
December 20, 2018

Sample Criteria Exceedances Report

GCC17470 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Analysis Comments

December 20, 2018

SDG I.D.: GCC17470

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Fax (860) 645-0823
Email: info@phoenixlabs.com
Client Services (860) 645-8726
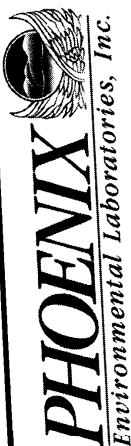
Customer: Barnhardt
Address: PO Box 3 242 Main Rd
Colrain Mass 01340

Project: NPDES Bi-month
Report to: Keith Samuel
Invoice to: Barnhardt
QUOTE #

Sampler's Signature: _____   Date: 12-19-18

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = _____(Other)

Analysis Request: TKN/Total/Nitrate Nitrite + Nitrate

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled		
174170	Effluent	WW	12-19-18	7AM	1	
	Effluent	WW	12-19-18	7AM		1

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐
Temp: 7°C Pg ___ of ___

Bottle columns (top): Bacteria Bottle as is / Bacteria Bottle w/thio / PL NaOH 250ml / PL HNO3 250ml / PL H2SO4 (1) 250ml [ ] 500ml [ ] 1000ml / PL AS is [ ] 250ml [ ] 500ml [ ] H2SO4 / PL AS is [ ] HCl / GL Amber 1000ml [ ]as is [ ]HCl / 40 ml VOA Vial [ ] oz / GL Soil container [ ] oz H2O / GL Soil container [ ] methanol [ ] H2O / Soil VOA Vials [ ] w/H3PO4 / GL Amber 8 oz.

Relinquished by: _____   **Accepted by:** _____

Date:	Time:
12/19/18	1435
10/19/18	1000

Turnaround Time:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ Standard
☐ Other
* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

CT
☐ Direct Exposure (Residential)
☐ GW
☐ Other
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

RI

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-3
☐ MWRA eSMART ☐ Other

State where samples were collected: MA

Data Format
☐ Excel
☑ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES